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Serial No.: 10/820,237  
Filing Date: April 5, 2004  
Docket No.: ZIL-519-1C

**Amendments to the Claims:**

This listing of claims replaces all prior versions and listings of claims in the application.

**Listing of Claims**

1-24. (Canceled)

25. (currently amended) A method, comprising:

generating a sawtooth signal, wherein the sawtooth signal has an amplitude;

generating a correction signal, wherein the correction signal has a vertical retrace time  $t_{VR}$  and a vertical active time  $t_{VA}$ ;

modulating the amplitude of the sawtooth signal using the correction signal to generate a deflection signal; and

amplifying the deflection signal to generate a deflection current signal, wherein the deflection current signal is not distorted when the correction signal transitions from the vertical retrace time  $t_{VR}$  to the vertical active time  $t_{VA}$ .

26. (previously presented) The method of Claim 25, wherein the generating the correction signal is performed by combining a first correction signal component with a second correction signal component such that the correction signal has no discontinuities.

27. (previously presented) The method of Claim 26, wherein the first correction signal component has a constant amplitude during the vertical active time  $t_{VA}$ .

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28. (previously presented) The method of Claim 26, wherein the second correction signal component has a constant amplitude during the vertical retrace time  $t_{VR}$ .

29. (previously presented) The method of Claim 26, wherein the first correction signal component has an amplitude, and wherein the amplitude of the first correction signal component varies parabolically over a portion of the first correction signal component.

30. (previously presented) The method of Claim 25, wherein the sawtooth signal is a horizontal sawtooth signal, and wherein the correction signal is a horizontal correction signal.

31. (currently amended) The method of Claim 25, wherein the generating the correction signal comprises generating a higher-order signal ~~from the sawtooth signal~~.

32. (previously presented) A horizontal deflection generator, comprising:  
a circuit that generates a horizontal sawtooth signal having an amplitude;  
and  
means for modulating the amplitude of the horizontal sawtooth signal using a horizontal correction signal to generate a horizontal deflection current signal, wherein the horizontal correction signal has a vertical active time  $t_{VA}$  and a vertical retrace time  $t_{VR}$ , and wherein the horizontal deflection current signal is not distorted after a transition from the vertical active time  $t_{VA}$  to the vertical retrace time  $t_{VR}$ .

33. (previously presented) The horizontal deflection generator of Claim 32, wherein the horizontal correction signal is a continuous signal.

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34. (previously presented) The horizontal deflection generator of Claim 32, wherein the means comprises an amplifier, wherein the means generates a modulated horizontal sawtooth signal, and wherein the amplifier generates the horizontal deflection current signal by amplifying the modulated horizontal sawtooth signal.

35. (previously presented) The horizontal deflection generator of Claim 34, wherein the amplifier has a limited frequency bandwidth.

36. (previously presented) The horizontal deflection generator of Claim 32, wherein the horizontal deflection generator is part of a raster display system.

37. (new) The horizontal deflection generator of Claim 32, wherein the horizontal deflection generator is implemented on a single integrated circuit device.

38. (new) The horizontal deflection generator of Claim 32, wherein the horizontal deflection generator is implemented in software.

39. (new) The method of Claim 25, wherein a circuit generates the correction signal, and wherein the circuit includes a level shifter.

40. (new) The method of Claim 39, wherein the circuit includes an inverter.

41. (new) The method of Claim 39, wherein the circuit includes a gain controller.

42. (new) A horizontal deflection generator, comprising:

    a circuit that generates a horizontal sawtooth signal having an amplitude;  
and

    means for modulating the amplitude of the horizontal sawtooth signal using a horizontal correction signal to generate a horizontal deflection current

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signal, wherein the horizontal correction signal does not have any discontinuities.

43. (new) The horizontal deflection generator of Claim 42, wherein the horizontal deflection generator is implemented in software.

44. (new) The horizontal deflection generator of Claim 42, wherein the means comprises an amplifier, wherein the means generates a modulated horizontal sawtooth signal, and wherein the amplifier generates the horizontal deflection current signal by amplifying the modulated horizontal sawtooth signal.